

ABSTRACT

A liquid crystal display of the invention comprises an in-plane switching liquid crystal panel containing a liquid crystal layer whose alignment orientation changes according to an electric field in parallel with a surface of a substrate; a first polarizing plate and a second polarizing plate disposed sandwiching the liquid crystal panel therebetween; a first optical film inserted between the first polarizing plate and the liquid crystal panel; and a second optical film inserted between the second polarizing plate and the liquid crystal panel, wherein the first optical film includes: a retardation film A1 having a relation of $n_z > n_x \geq n_y$; and a retardation film B having an in-plane retardation (R_e) in the range of from 200 to 300 nm, a relation of $n_x > n_z > n_y$ and satisfying N_z coefficient in the range of $0.3 < N_z < 0.7$, in which three-dimensional refractive indices are controlled; the second optical film includes a retardation film A2 having a relation of $n_z > n_x \geq n_y$; and the slow axis of the retardation film B is in parallel with or perpendicular to the absorption axes of the first and second polarizing plates. The liquid crystal display has a high contrast ratio over a wide range.